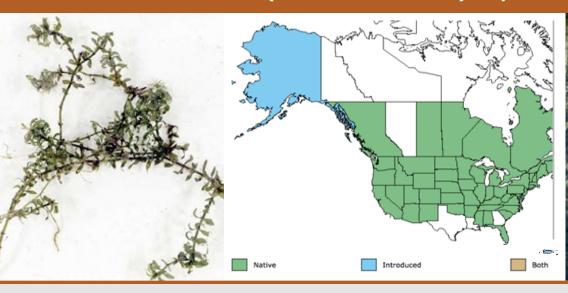
USACE Invasive Plant Species Best Management Practices

Canadian Waterweed (Elodea canadensis) - Hydrocharitaceae (Frog's Bit)





Habitat & Life History

Native/nuisance in context - Perennial forb/herb - OBL - Mostly reproduces via stem fragments

Integrated Management Strategy Selections

Prevention

Chemical

Biological

Mechanical

Cultural



PREVENTION

Manage nutrient input & composition; Maintain healthy, diverse community of desirable vegetation



CHEMICAL CONTROL

- Herbicides—copper sulphate (or chelates of copper), endothall, diquat, flumioxazin, fluridone, penoxsulam
- Use-pattern—water column
 - *Refer to product label for specific instructions on rate & use-pattern



BIOLOGICAL CONTROL

- Agent—Ctenopharyngodon idella (Triploid grass carp); nonselective grazer
- Rearing/release: restricted in some US states; must purchase from certified hatchery



MECHANICAL CONTROL

- Hand pull, aquatic weed rake, seine, remove floating fragments
- Weed rollers, harvester



CULTURAL CONTROL

Drawdown, dyes, shading, benthic barriers, competition with other natives may reduce growth



MANAGEMENT SEQUENCING

- Timing of control methods—best option is to apply chemical control early in growing season (~April to May)
- Monitoring—closely monitor for any regrowth and re-apply herbicides if necessary
- Niche-filling/Restoration—restore treated areas with competitive native vegetation



COMMENTS

• Infestations are usually associated with excess nutrients and the release of fragments during mechanical management; Canadian waterweed is commonly confused with genera Egeria and Hydrilla

